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TITLE: PRODUCTION OF SEMICONDUCTOR BIOSENSOR

PUBN-DATE: September 19, 1988

INVENTOR-INFORMATION:
NAME
KURIYAMA, TOSHIHIDE

ASSIGNEE-INFORMATION:
NAME COUNTRY
NEC CORP N/A

APPL-NO: JP62056488
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INT-CL (IPC): G01N 27/30; H01L 29/78

ABSTRACT:

PURPOSE: To improve the accuracy of the thickness of patterned enzyme immobilized films by using patterned porous hydrophilic films having a uniform thickness.

CONSTITUTION: An enzyme-contg. soln. injected from an ink jet nozzle 3a adheres onto the patterned porous hydrophilic films 2 and penetrates into the films. The enzyme liquid is held in the films 2 by surface tension and is nearly uniformly spread therein. The enzyme is uniformly distributed in the films even after drying. The patterned enzyme immobilized films having the uniform thickness are, therefore, obtd. by using the patterned porous hydrophilic films. Dropping of the enzyme to a prescribed sensor region is permitted by placing a wafer 1 on an X-Y stage and moving the position thereof with good accuracy. The formation of the enzyme immobilized films having the uniform characteristics on the wafer is permitted by controlling the dropping rate of the enzyme liquid.

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